



Attorney's Docket No.: 13125-002001 / 6433/US/99

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yaakov Naparstek et al.  
Serial No. : 09/847,637  
Filed : May 2, 2001  
Title : NOVEL AMINO ACID SEQUENCES, DNA ENCODING THE AMINO ACID SEQUENCES, ANTIBODIES DIRECTED AGAINST SUCH SEQUENCES AND THE DIFFERENT USES THEREOF

Commissioner for Patents  
Washington, D.C. 20231

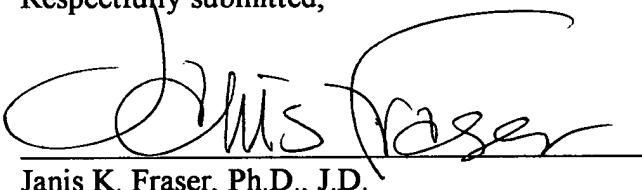
INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: Dec. 17, 2001

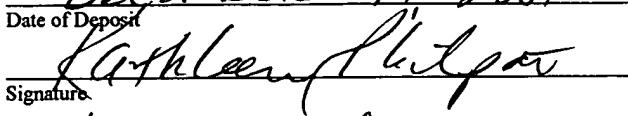
  
Janis K. Fraser, Ph.D., J.D.  
Reg. No. 34,819

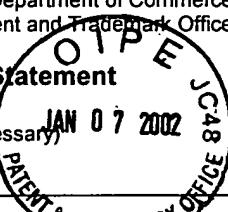
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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 13125-002001	Application No. 09/847,631
<b>Information Disclosure Statement</b> <b>by Applicant</b> <small>(Use several sheets if necessary)</small>				Applicant Yaakov Naparstek et al.	JAN 10 2002 RECEIVED U.S. Patent and Trademark Office JAN 10 2002
(37 CFR §1.98(b))		Filing Date May 2, 2001	Group Art Unit 1642		

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,780,034	07/14/98	Cohen et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	AB	WO 96/10039	04/04/96	WIPO			X
	AC	WO 95/25744	09/28/95	WIPO			X

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AD	Anderton et al., "Inflammation activates self hsp60-specific T cells", <u>Eur. J. Immunol.</u> , 23:33-38, 1993.
	AE	Anderton et al., "Activation of T Cells Recognizing Self 60-kD Heat Shock Protein Can Protect against Experimental Arthritis", <u>J. Exp. Med.</u> , 181:943-952, 1995.
	AF	Anderton et al., "Differential Mycobacterial 65-kDa Heat Shock Protein T Cell Epitope Recognition after Adjuvant Arthritis-Inducing or Protective Immunization Protocols", <u>Journal of Immunology</u> , 152:3656-3664, 1994.
	AG	Barker et al., "Differential Effects of Immunisation with Mycobacterial 65 kD Heat Shock Protein on Two Models of Autoimmunity", <u>Immunity</u> , 14:73-77, 1992.
	AH	Billingham et al., "A Mycobacterial 65-kD Heat Shock Protein Induces Antigen-Specific Suppression Of Adjuvant Arthritis, But Is Not Itself Arthritogenic", <u>J. Exp. Med.</u> , 171:339-344, 1990.
	AI	Chen et al., "Human 60-kDa Heat-Shock Protein: A Danger Signal to the Innate Immune System", <u>The Journal of Immunology</u> , 162:3212-3219, 1999.
	AJ	Elias, D and Cohen, IR, "The hsp60 Peptide p277 Arrests the Autoimmune Diabetes Induced by the Toxin Streptozotocin", <u>Diabetes</u> , 45:1168-1172, 1996.
	AK	Elais, D and Cohen, IR, "Peptide therapy for diabetes in NOD mice", <u>The Lancet</u> , 343:704-706, 1994.
	AL	Friedland et al., "Mycobacterial 65-kD heat shock protein induces release of proinflammatory cytokines from human monocytic cell", <u>Clin. Exp. Immunol.</u> , 91:58-62, 1993.
	AM	Ghoraishian et al., "Comparison between the protective effects of mycobacterial 65-kD heat shock protein and ovomucoid in pristane-induced arthritis: relationship with agalactosyl IgG", <u>Clin. Exp. Immunol.</u> , 94:247-251, 1993.
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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13125-002001	Application No. 09/847,664
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Yaakov Naparstek et al.	JAN 10 2002 RECEIVED U.S. PATENT AND TRADEMARK OFFICE JAN 10 2002 160012000
(37 CFR §1.98(b))		Filing Date May 2, 2001	Group Art Unit 1642

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	BA	Hill Gaston et al., "Recognition of a Mycobacteria-Specific Epitope in the 65-kD Heat-Shock Protein by Synovial Fluid-Derived T Cell Clones", <u>J. Exp. Med.</u> , 171:831-841, 1990.
	BB	Hill Gaston et al., "In Vitro Responses to a 65-Kilodalton Mycobacterial Proteins by Synovial T Cells from Inflammatory Arthritis Patients", <u>The Journal of Immunology</u> , 143(8):2494-2500, 1989.
	BC	Hogervorst et al., "Modulation of Experimental Autoimmunity: Treatment of Adjuvant Arthritis by Immunization with a Recombinant Vaccinia Virus", <u>Infection and Immunity</u> , 59(6):2029-2035, 1991.
	BD	Hogervorst et al., "Adjuvant arthritis and immunity to the mycobacterial 65 kDa heat shock protein", <u>International Immunology</u> , 4(7):719-727, 1992.
	BE	Hogervorst et al., "T cell reactivity to an epitope of the mycobacterial 65-kDa heat-shock protein (hsp 65) corresponds with arthritis susceptibility in rats and is regulated by hsp 65-specific cellular responses", <u>J. Immunol.</u> , 21:1289-1296, 1991.
	BF	Holoshitz et al., "T Lymphocytes of Rheumatoid Arthritis Patients Show Augmented Reactivity to a Fraction of Mycobacteria Cross-Reactive with Cartilage", <u>The Lancet</u> , 305-309, 1986.
	BG	Holoshitz et al., "Lines of T Lymphocytes Induce or Vaccinate Against Autoimmune Arthritis", <u>Science</u> , 219:56-58, 1983.
	BH	Jindal et al., "Primary Structure of a Human Mitochondrial Protein Homologous to the Bacterial and Plant Chaperonins and to the 65-Kilodalton Mycobacterial Antigen", <u>Molecular and Cellular Biology</u> , 9(5):2279-2283, 1989.
	BI	Jordan, SC and Toyoda, M, "Treatment of autoimmune diseases and systemic vasculitis with pooled human intravenous immune globulin", <u>Clin. Exp. Immunol.</u> , 97(1):31-38, 1994.
	BJ	Kasprzyk et al., "Solid-Phase Peptide Quantitation Assay Using Labeled Monoclonal Antibody and Glutaraldehyde Fixation", <u>Analytical Biochemistry</u> , 174:224-234, 1988.
	BK	Kleinau et al., "A Monoclonal Antibody to the Mycobacterial 65kDa Heat Shock Protein (ML 30) Binds to Cells in Normal and Arthritic Joints of Rats", <u>Scand. J. Immunol.</u> , 33:195-202, 1991.
	BL	López-Moratalla et al., "A common structural motif in immunopotentiating peptides with sequences present in human autoantigens. Elicitation of a response mediated by monocytes and Th 1 cells", <u>Biochimica et Biophysica Acta</u> , 1317:183-191, 1996.
	BM	Maloy et al., "Production of Antipeptide Antisera", <u>Current Protocols in Immunology</u> , 39:9.4 - 9.4.12, 2000.
	BN	Margulies, DH, "Antibody Detection and Preparation", <u>Current Protocols in Immunology</u> , 2.01-2.13.16, 1996.
	BO	Moudgil et al., "Diversification of T Cell Responses to Carboxy-terminal Determinants within the 65-kD Heat-shock Protein Is Involved in Regulation of Autoimmune Arthritis", <u>J. Exp. Med.</u> , 185(7):1307-1316, 1997.
	BP	Munk et al., "T Lymphocytes from Healthy Individuals with Specificity to Self-Epitopes Shared by the Mycobacterial and Human 65-Kilodalton Heat Shock Protein", <u>The Journal of Immunology</u> , 143(9):2844-2849, 1989.
	BQ	Pearson, Carl M., "Development of Arthritis, Periarthritis and Periostitis in Rats Given Adjuvants", <u>Development of Arthritis in Rats</u> , 95-100.
	BR	Pearson, Carl M. and Wood, Fae D., "Studies of Polyarthritis and Other Lesions Induced in Rats by Injection of Mycobacterial Adjuvant. I. General Clinical and Pathologic Characteristics and Some Modifying Factors", <u>Arthritis Leisons from Mycobacteria</u> , 440-450.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13125-002001	Application No. 09/847,637
<b>Information Disclosure Statement</b> by Applicant (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Yaakov Naparstek et al.	RECEIVED JAN 10 2002 USPTO - TECH CENTER 1600
		Filing Date May 2, 2001	

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Design ID	Document
	CA	Prakken et al., "Nasal administration of arthritis-related T cell epitopes of heat shock protein 60 as a promising way for immunotherapy in chronic arthritis", <u>Biotherapy</u> , 10:205-211, 1998.
	CB	Prakken et al., "Peptide-induced nasal tolerance for a mycobacterial heat shock protein 60 T cell epitope in rats suppresses both adjuvant arthritis and nonmicrobially induced experimental arthritis", <u>Proc. Natl. Acad. Sci. USA</u> , 94:3284-3289, 1997.
	CC	Quayle et al., "Peptide recognition, T cell receptor usage and HLA restriction elements of human heat-shock protein (hsp) 60 and mycobacterial 65-kDa hsp-reactive T cell clones from rheumatoid synovial fluid", <u>Eur. J. Immunol.</u> , 22:1315-1322, 1992.
	CD	Res et al., "Synovial Fluid T Cell Reactivity Against 65 kD Heat Shock Protein of Mycobacteria in Early Chronic Arthritis", <u>The Lancet</u> , 478-480, 1988.
	CE	Ulmansky, R. and Naparstek, Y., "Immunoglobulins from rats that are resistant to adjuvant arthritis suppress the disease in arthritis-susceptible rats", <u>Eur. J. Immunol.</u> , 25:952-957, 1995.
	CF	van Eden et al., "Cloning of the mycobacterial epitope recognized by T lymphocytes in adjuvant arthritis", <u>Nature</u> , 331:171-173, 1988.
	CG	Waksman, BH and Wennersten, C., "Passive Transfer of Adjuvant Arthritis in Rats with Living Lymphoid Cells of Sensitized Donors", <u>Int. Arch. Allergy</u> , 23(3-4):129-139, 1963.
	CH	Warren et al., "Fine specificity of the antibody response to myelin basic protein in the central nervous system in multiple sclerosis: The minimal B-cell epitope and a model of its features", <u>Proc. Natl. Acad. Sci. USA</u> , 92:11061-11065, 1995.
	CI	Yang et al., "Prevention of adjuvant arthritis in rats by a nonapeptide from the 65-kD mycobacterial heat-shock protein", <u>Clin. Exp. Immunol.</u> , 81:189-194, 1990.
	CJ	Yang et al., "Treatment of Adjuvant Arthritis in Rats: Vaccination Potential of a Synthetic Nonapeptide from the 65 kDa Heat Shock Protein of Mycobacteria", <u>Journal of Autoimmunity</u> , 3:11-23, 1990.
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